A change of power of attorney and/or address letter. 18

☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825. 19.

A second copy of the published international application under 35 U.S.C. 154(d)(4). 20.

☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 21.

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Translated copy of Response to Written Opinion



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Attorney Docket No. MFA-13302/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Heinz-Ulrich Diestelhorst et al.

Serial No.:

Filed:

DEVICE FOR STORING DISC-SHAPED DATA CARRIERS

PRELIMINARY AMENDMENT

Box PCT

Assistant Commissioner for Patents

Washington, D.C. 20231

Dear Sir:

Prior to the examination of this application, please amend the application as follows:

IN THE CLAIMS:

Please amend claim 3 as follows:

3. (Amended) An apparatus in accordance with claim 1, characterized in that the coupling member (14) comprises an insertable portion (22) provided with an approximately part circular-like cut-out (26) which, in the inserted state, fills up the space between the slot opening (16) and the circular reception space for the data storage medium (12) in the flat housing (10) at least in part, preferably substantially in

Please amend claim 4 as follows:

4. (Amended) An apparatus in accordance with claim 1, characterized in that at least one of the narrow sides (28) of the flat housing (10) adjacent to the slot

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Page 2

opening (16) is provided with projection-like latching means (36) for the coupling member (14).

Please amend claim 5 as follows:

(Amended) An apparatus in accordance with claim 1, characterized in
that at least one connecting element which connects two halves of the flat housing
(10) to one another is formed as latching means (36).

Please amend claim 6 as follows:

6. (Amended) An apparatus in accordance with claim 1, characterized in that at least one latching means of the coupling member (14) comprises at least one material web (32) which is elastically deformable, in particular by latching means (36) of the flat housing (10) and which bounds at least one cut-out (33) which is in particular in the shape of an elongate slot.

Please amend claim 8 as follows:

8. (Amended) An apparatus in accordance with claim 1, characterized in that the slot opening (16) of the flat housing (10) is at least substantially completely closed when the coupling member (14) is inserted.

Please amend claim 9 as follows:

9. (Amended) An apparatus in accordance with claim 1, characterized in that the coupling member (14) has at least one abutment edge which can be brought into abutment with at least one edge region bounding the slot opening (16) or with at

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Page 3

4 least one abutment region formed in the flat housing (10) on insertion into the flat 5 housing (10).

Please amend claim 10 as follows:

10. (Amended) An apparatus in accordance with claim 1, characterized in that the outer portion (24) of the coupling member (14) has at least one coupling element (30) via which the coupling member (14) can be connected, in particular releasably connected, to carriers (42), in particular in the form of flip covers, outer packagings, rod arrangements, hanging registers, storage racks, display units, storage containers, rail systems and/or plug systems.

Please amend claim 11 as follows:

11. (Amended) An apparatus in accordance with claim 1, characterized in that the coupling member (14), in particular a coupling element (30) of the coupling member (14), is formed for the releasable connection to storage apparatuses for data storage media of the DVD type, in particular with fixing elements (50) arranged at narrow sides (44) of DVD boxes (42).

Please amend claim 12 as follows:

12. (Amended) An apparatus in accordance with claim 1, characterized in that the outer portion of the coupling member (14) is connected in one piece to a carrier (42).

Please amend claim 13 as follows:

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Page 4

13. (Amended) An apparatus in accordance with claim 1, characterized in that the coupling member (14) is a component of a folding packaging, in particular one consisting of cardboard or card.

Please amend claim 14 as follows:

14. (Amended) An apparatus in accordance with claim 1, characterized in that the coupling member (14) – in the state connected to a carrier (42) – is pivotable with respect to the carrier (42) and is in particular biased relative to the carrier (42) in to an inserting and removing position which allows a simple coupling to the flat housing (10).

Please amend claim 15 as follows:

15. (Amended) An apparatus in accordance with claim 1, characterized in that the coupling member (14) consists of a reusable material, in particular of plastic, preferably polypropylene, or of cardboard or card.

Please cancel claim 17.

Page 5

REMARKS

If the Examiner has any questions relating to the application, Applicant's attorney may be reached at (248) 647-6000.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version with Markings to Show Changes Made."

Respectfully submitted,

Douglas W. Sprinkle, Reg. No. 27,394

Attorney for Applicant
Gifford, Krass, Groh, Sprinkle,
Anderson & Citkowski, P.C.

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Date: 5/11/3/

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Page 6

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Claim 3 has been amended as follows:

3. (Amended) An apparatus in accordance with claim 1 [or claim 2], characterized in that the coupling member (14) comprises an insertable portion (22) provided with an approximately part circular-like cut-out (26) which, in the inserted state, fills up the space between the slot opening (16) and the circular reception space for the data storage medium (12) in the flat housing (10) at least in part, preferably substantially in full.

Claim 4 has been amended as follows:

4. (Amended) An apparatus in accordance with [at least one of the preceding claims] claim 1, characterized in that at least one of the narrow sides (28) of the flat housing (10) adjacent to the slot opening (16) is provided with projection-like latching means (36) for the coupling member (14).

Claim 5 has been amended as follows:

5. (Amended) An apparatus in accordance with [at least one of the preceding claims] claim 1, characterized in that at least one connecting element which connects two halves of the flat housing (10) to one another is formed as latching means (36).

Claim 6 has been amended as follows:

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6. (Amended) An apparatus in accordance with [at least one of the preceding claims claims l. characterized in that at least one latching means of the coupling member (14) comprises at least one material web (32) which is elastically deformable, in particular by latching means (36) of the flat housing (10) and which bounds at least one cut-out (33) which is in particular in the shape of an elongate slot.

Claim 8 has been amended as follows:

8. (Amended) An apparatus in accordance with [at least one of the preceding claims] claim 1, characterized in that the slot opening (16) of the flat housing (10) is at least substantially completely closed when the coupling member (14) is inserted.

Claim 9 has been amended as follows:

(Amended) An apparatus in accordance with [at least one of the 9. preceding claims claim 1, characterized in that the coupling member (14) has at least one abutment edge which can be brought into abutment with at least one edge region bounding the slot opening (16) or with at least one abutment region formed in the flat housing (10) on insertion into the flat housing (10).

Claim 10 has been amended as follows:

(Amended) An apparatus in accordance with [at least one of the 10. preceding claims claim 1, characterized in that the outer portion (24) of the coupling member (14) has at least one coupling element (30) via which the coupling member (14) can be connected, in particular releasably connected, to carriers (42), in particular

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- 5 in the form of flip covers, outer packagings, rod arrangements, hanging registers,
- 6 storage racks, display units, storage containers, rail systems and/or plug systems.

Claim 11 has been amended as follows:

11. (Amended) An apparatus in accordance with [at least one of the preceding claims] <u>claim 1</u>, characterized in that the coupling member (14), in particular a coupling element (30) of the coupling member (14), is formed for the releasable connection to storage apparatuses for data storage media of the DVD type, in particular with fixing elements (50) arranged at narrow sides (44) of DVD boxes (42).

Claim 12 has been amended as follows:

12. (Amended) An apparatus in accordance with [at least one of the preceding claims] <u>claim 1</u>, characterized in that the outer portion of the coupling member (14) is connected in one piece to a carrier (42).

Claim 13 has been amended as follows:

13. (Amended) An apparatus in accordance with [at least one of the preceding claims] <u>claim 1</u>, characterized in that the coupling member (14) is a component of a folding packaging, in particular one consisting of cardboard or card.

Claim 14 has been amended as follows:

14. (Amended) An apparatus in accordance with [at least one of the preceding claims] claim 1, characterized in that the coupling member (14) – in the

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Page 9

- state connected to a carrier (42) is pivotable with respect to the carrier (42) and is in
 particular biased relative to the carrier (42) in to an inserting and removing position
- 5 which allows a simple coupling to the flat housing (10).

Claim 15 has been amended as follows:

15. (Amended) An apparatus in accordance with [at least one of the preceding claims] claim 1, characterized in that the coupling member (14) consists of a reusable material, in particular of plastic, preferably polypropylene, or of cardboard or card.

Claim 17 has been cancelled.

DECLARATION

I, Jeffrey C. Barfield of Ahornstrasse 17, 82377 Penzberg, Germany, do hereby declare that I am conversant with the English and German languages and that I am a competent translator thereof.

I verify that the attached English translation is a true and correct translation of the international patent application with the reference number PCT/EP99/08715.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: May 7, 2001

Jeffrey C. Barfield

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TORRA AR YES

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09/831676

An apparatus for storing disk-shaped data storage media

The invention relates to an apparatus for storing disk-shaped data storage media, in particular of the CD or DVD kind.

Such storage apparatuses are generally known and serve for the storage or transport of data storage media, for example in the form of compact disks, or their presentation for rental or sale.

- 10 US 5,593,031 describes an apparatus for the storage of optical memory disks having a movable disk holder which is movable relative to a housing which can be flipped open and which is arranged fully in the closed housing in the normal storage state.
- 15 It is the underlying problem (object) of the invention to provide a storage apparatus of the kind initially named which can be used in as versatile a manner as possible with simple handling.

This object is solved by the features of claim 1.

The coupling member provided in accordance with the invention, which is also termed a clip in the following, allows the possibility of coupling a data storage medium arranged in the reception space of the flat housing to be coupled to carrier units of generally any design via the outer portion of the coupling member.

In accordance with the invention, a flat housing is provided that has a slot opening via which a reception space for the data storage medium is

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accessible, wherein the coupling member can be inserted into the flat housing via the slot opening and is releasably connected, in particular latched, to the flat housing in the inserted state.

The data storage medium can be stored in a manner protected against outside influences in such a flat housing. The coupling member allows the possibility of not only coupling the flat housing to carrier units, but of simultaneously reducing the size or completely closing the slot opening of the flat housing. The clip thus performs two functions simultaneously by, on the one hand, providing a simple fixing possibility for the flat housing and, on the other hand, providing better protection of the data storage medium against outside influences, for example against dust or moisture penetrating the reception space through the slot opening. Moreover, this embodiment of the invention allows a variety of possibilities to handle both individual and multiple flat housings for data storage media simultaneously. For example, the handling of a plurality of flat housings each coupled to a clip and thus the simultaneous storage of a number of data storage media is made substantially simpler, since the flat housings can be collected in a clearly arranged and ordered manner at carrier units and can be connected individually to the carrier unit via the respective coupling member. The flat housings can thus be replaced independently of one another without disturbing the overall arrangement.

In accordance with a preferred embodiment of the invention, the coupling member comprises an insertable portion which is provided with an approximately part circular-like cut-out and which, in the inserted state, fills up the space between the slot opening and the circular reception D9831676.090401

space for the data storage medium in the flat housing at least in part, preferably substantially in full.

The space available in the flat housing is utilized by the coupling member in accordance with the invention in an ideal manner in this way. The data storage medium can be given additional security in the flat housing by the provision of the part circular-like cut-out in the insertable portion of the coupling member which can be matched to the contour of the respective data storage medium.

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In accordance with a further preferred embodiment of the invention, at least one of the narrow sides of the flat housing adjacent to the slot opening is provided with projection-like latching means for the coupling member.

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The possibility provided in this way of latching the coupling member to the flat housing results in a mechanical connection between the clip and the flat housing which can be made and cancelled in a particularly fast and simple manner.

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If, in accordance with a further preferred embodiment of the invention, at least one connecting element which connects two halves of the flat housing to one another is formed as the latching means, the number of features to be formed at the flat housing is minimized by this double use of the connecting element and the manufacture of the flat housing is thus simplified.

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In accordance with a further preferred embodiment of the invention, the outer portion of the coupling member arranged outside the flat housing when the coupling member is inserted has at least one coupling element via which the coupling member can be connected, in particular releasably connected, to carriers, in particular in the form of flip covers cases, outer packaging, rod arrangements, hanging registers, storage racks, display units, storage apparatuses, rail systems and/or plug systems.

A plurality of flat housings can in this way be attached in an ordered and clearly arranged manner to a carrier ideally formed for the respective purpose. The clip in accordance with the invention, which is simple and cost-favorable in manufacture, here serves in each case as an adapter piece for the flat housings which thus do not have to be subjected to any constructional change in order to be combined with the different carriers. Furthermore, a plurality of carriers can be assembled in the manner of a modular system to carrier constructions of generally any design, for example for the storage, rental, sale and/or presentation of CDs or DVDs, with the coupling member in accordance with the invention respectively allowing an individual arrangement of the flat housing.

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In accordance with a further preferred embodiment of the invention, the coupling member is a component of a folding packaging, in particular one consisting of cardboard or card.

A particularly simple possibility of shipping data storage media is provided in this way. The flat housing containing the data storage medium and the folding packaging are simply connected together to form a unit ready for shipping for this purpose. Figs. 1 and 2

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Further preferred embodiments of the invention are given in the dependent claims, the description and the drawing.

5 The invention is described in the following by way of example with reference to the drawing, in which are shown:

0	or a coorage apparatao in accordance with				
	the invention comprising a coupling member which can				
	be coupled to rod arrangements;				
Figs. 3 – 6	embodiments of a storage apparatus in accordance with the invention for connection to DVD boxes; and				
Figs. 7 and 8	embodiments of a storage apparatus in accordance with				

embodiments of a storage apparatus in accordance with

the invention comprising a coupling member which can

The storage system in accordance with the invention shown in Fig. 1

20 comprises a flat housing 10, in which a disk-shaped data storage medium

12, e.g. a CD or DVD, is received, and a coupling member 14 that is
inserted into the flat housing 10 through a slot opening 16.

be coupled to a rail system.

The flat housing 10 is a component of a storage apparatus for data storage 25 media which is described for example in the German patent application 197 28 705 (application date: July 4, 1997) or in the international patent application WO 93/16471 (published on August 19, 1993). The flat plastic housing 10 consisting of a light-transmitting and in particular tinted

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material has an ejection mechanism for the data storage medium 12 which comprises an actuating lever 18 and two pivoted levers 20. The data storage medium 12 is held in the flat housing 10 by the pivoted levers 20, whereas – with the coupling member 14 removed – it can be ejected against the holding force of the pivoted levers 20 through the slot opening 16 by means of the actuating lever 18 which has an actuating section 19 projecting out of the flat housing 10.

The coupling member 14 comprises an insertable portion 22, which is arranged in the flat housing 10 in the inserted state in accordance with Fig. 1, and an outer portion 24 which is located outside the flat housing 10 in the inserted state.

The insertable portion 22 is provided with a part circular-like cut-out 26 which is matched to the contour of the circular data storage medium 12. The space between the data storage medium 12 or a circular reception space for the data storage medium 12, the slot opening 16 and the narrow sides 28 of the flat housing 10 adjacent to the slot opening 16 is substantially fully filled up by latching regions 21 of the insertable portion 22. The thickness of the insertable portion 22 preferably corresponds approximately to the height of the space available in the flat housing 10.

Each latching region 21 of the insertable portion 22 has a cut-out 33 in the shape of an elongate slot which extends parallel to the respective narrow side 28 in the inserted state. The cut-outs 33 are each bounded by a material web 32, which is provided with an engaging section 34, at the side facing the respective narrow side 28 in the inserted state.

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In the inserted state, the insertable portion 22 of the coupling member 14 is in engagement with connecting elements 36 protruding inwardly from the narrow sides 28 such that the engaging sections 34 latchingly engage behind the connecting elements 36.

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Connecting elements 36 which are further removed from the slot opening 16 and are not intended to cooperate with the coupling member 14 can be seen in Fig. 1. The connecting elements 36 provide a releasable latching or inserting connection between two halves forming the flat housing 10 and are each molded onto one of the two halves of the flat housing 10 or formed in two parts with two single elements each molded onto one of the halves.

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The connecting elements 36 cooperating with the coupling member 14 thus serve as latching means of the flat housing 10 both for connection to the coupling member 14 and for holding together the two halves of the flat housing 10.

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At least one of the halves of the flat housing 10 is provided at its edge bounding the slot opening 16 with two part circular-like indentations 38 in which, in the inserted state, fixing lugs 40 are seated which are arranged at the outer portion 24 of the coupling member 14 and shaped in complementary manner to the indentations 38 and which provide a defined relative position between the coupling member 14 and the flat housing 10.

Abutting shoulders 25 of the outer portion 24 determine the maximum insertion depth of the insertable portion 22 in the flat housing 10.

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The outer portion 24 of the coupling member 14 can have a greater thickness than the insertable portion 22 and be provided with at least one abutment edge which, in the inserted state in accordance with Fig. 1, abuts one of the edges of the flat housing 10 bounding the slot opening 16. The flat housing 10 can furthermore be provided with braking and guide rails which are opposite one another and which extend over the width of the slot opening adjacent to the slot opening 16, whereby they form a passage constricted with respect to the slot opening 16 for the data storage medium 12 and the insertable portion 22 at the inside of the flat housing 10. In this case, the insertable portion 22 can be provided with at least one abutment edge contacting the braking and guide rails in the inserted state.

In the embodiment of Fig. 1, the outer portion 24 of the coupling member 14 is formed as a rectangular locating strip whose width is selected such that it ends flush with the outer surfaces of the narrow sides 28 of the flat housing 10. The outer portion 24 is provided at its side remote from the slot opening 16 with two circular apertures which each serve as a coupling element 30 and whose spacing is selected in accordance with conventional, in particular standardized rod arrangements, such as, for example, of Leitz files or the like.

Fig. 2 shows how a plurality of the storage apparatuses in accordance with the invention can be arranged in such a carrier 42 designed in the way of a book or file for the storage of a plurality of disk-shaped data storage media 12.

DOMESTALE TORONTO

The coupling member 14 is made of a re-usable material, for example a recyclable plastic such as polypropylene or of a cardboard or card material. Furthermore, the coupling member 14 can be provided, in particular at its outer side 24, with a chip or another information medium carrier which, for example, information relating to the content of the respective data storage medium 12 can be stored. This chip or information carrier can be designed for remote reading so that the respective information can be transferred to an evaluation and/or display apparatus by being moved past a reading station.

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The insertable portion 22 is inserted through the slot opening 16 with material webs 32 aligned parallel to the narrow sides 28 to make the latching connection between the coupling member 14 and the flat housing 10. The rounded free ends 23 of the latching regions 21 ensure a reliable guidance of the insertable portion 22. The material webs 32 are elastically deformed during the insertion of the insertable portion 22 into the flat housing 10 by the connecting elements 36 representing the latching means of the flat housing 10 so that the engaging elements 34 can be moved past the connecting elements 36. When the pre-set insertion depth has been reached, the engaging sections 34 spring back, whereby they latchingly engage grip behind the connecting elements 36 and the coupling member 14 is thus latched in the flat housing 10.

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To release the latched connection, the material webs 32 are subjected to loads, either from the outside via the narrow sides 28 of the flat housing 10 or by means of a special tool which can be brought into the flat housing 10 in addition to the inserted coupling member 14 – for example via apertures in the housing narrow sides 28 which are not shown in Fig.

CONTRACTOR DATES

1 – and are pressed into the cut-outs 33 while being elastically deformed in order to release the interlocking with the connecting elements 36 and to allow the coupling member 14 to be pulled out of the flat housing 10.

5 Figs. 3 to 6 show the storage apparatus in accordance with the invention in connection with carriers formed as DVD boxes 42 in which disk-shaped data storage media of the DVD type which have a larger diameter than conventional compact disks are stored. The boxes 42 can, however, generally also be used for other data storage media which are arranged in a flat housing 10 which can be connected to a coupling member 14. The DVD boxes 42 are preferably formed in one piece, with them being manufactured using the injection molding method and being made of a transparent material preferably of plastic and preferably of polypropylene.

In the embodiment in accordance with Fig. 3, the coupling member 14 can be connected to the DVD box 42 such that it is biased into the position of Fig. 3. The flat housing 10 can in this way be set onto or removed from the coupling member 14 comfortably, as is indicated by the double arrow, when the cover 46 is pivoted open.

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While, in accordance with Fig. 3, the coupling member 14 is formed in one piece with a narrow side 44 of the jewel-case like DVD box 42 and is in particular pivotably connected via a region of reduced material thickness formed as an integral hinge, the coupling member 14 in the embodiments in accordance with Figs. 4 to 6 can be releasably fixed in place in the respective DVD box by means of coupling elements 30 described in more detail in the following.

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A DVD box 42 is shown in Fig. 4 which is made in one part and from transparent plastic and into which an information insert 48, for example a booklet or a brochure, can be inserted. The information insert 48 is pushed under fixing elements 50, 52 for fixing in place in the DVD box 42, with said fixing elements 50, 52 being spaced from the respective flat side 51a, 53a at narrow sides 44 of flat sides 51a, 53a of a reception half 51 or of a cover half 53 to form slot-like insertion cut-outs.

The fixing elements 50 arranged in each case in a corner region of the reception half 51 serve for the fixing in place of the coupling member 14 in the reception half 51, with the outer portion 24 of the coupling member 14 being provided with coupling elements 30 bent in a hook-like manner. In the state fixed in the DVD box 42, the coupling elements 30 grip around cylindrical projections 50a of the fixing elements 50 so that the coupling member 14 and a flat housing 10 (not shown) connected to the coupling member 14 can only be inserted into and removed from the DVD box 42 in a direction perpendicular to the flat side 51a.

An embodiment of the storage apparatus in accordance with the invention is shown in Fig. 5 whose coupling member 14 has two coupling elements 30 formed in the manner of gripping elements at its outer portion 24, said coupling elements 30 being able to be brought into engagement with weblike fixing elements 50 which are formed at the narrow side 44 of the DVD box, which extend parallel to the narrow side 44 and which are inwardly offset. The coupling member 14 or the flat housing 10 can also only be removed and inserted in a direction extending perpendicular to the flat side 51a of the DVD box 42 in this embodiment.

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A further embodiment of a coupling member 14 of a storage apparatus in accordance with the invention is shown in Fig. 6 which can be fixed in place at a DVD box 42 provided with an information insert 48, which is inserted into insertion slots between the flat side 51a and coupling elements 30 of the coupling member 14. For this purpose, the fixing elements 50 are provided which are arranged at the inner side of a narrow side 44 and which are provided with wedge-shaped cut-outs 54 at sides confronting one another. Complementary free ends of a strip section of the outer portion 24 which serve as coupling elements 30 of the coupling member 14 and which are each chamfered in accordance with the shape of the cut-outs 54 fit into these cut-outs 54. The coupling member 14 can also only be removed and inserted perpendicular to the flat side 51a of the DVD box 42 in this embodiment

The possibilities described above by way of Figs. 3 to 6 in order to fix the coupling member 14 in a carrier 42 formed for example as a DVD box represent preferred examples for a connection, which can generally be designed in any manner, between the storage apparatus in accordance with the invention and a carrier 42 for the fixing in place of a flat housing by means of the coupling member 14.

Figs. 7 and 8 each show an embodiment of the coupling member 14 in accordance with the invention which is releasably connected to a rail system. Two rails 60 are provided which extend in parallel and are arranged at a spacing corresponding to the width of the coupling member 14 and the flat housing 10 and which are formed by multiple folding of a carrier element 62 made, for example, of sheet metal. A plurality of carrier elements 62 can be connected to one another by connecting elements 64

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which can be screwed, for example, to a base carrier (not shown) of generally any kind in order to realize any rail length in this manner.

Furthermore, an end piece 68 can be seen in Fig. 7 which can be coupled to an end face of a carrier element 62.

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A plurality of cut-outs 70, which extend transversely to the direction of the rails, are formed at regular intervals in the rails 60, whereby intermediate webs 72 are created at which holding lugs 74, which each project into one of the cut-outs 70, are formed.

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The coupling member 14 of the storage apparatus in accordance with the invention is provided at its outer portion 24 with roll or roller-like coupling elements 30 whose diameters are dimensioned such that the coupling elements 30 are latched in the cut-outs 70 by an elastic deformation of the holding lugs 74 and which can rotate in the cut-outs 70 rounded at 71. As a result, the coupling member 14 – in the state latched to the rail system – can be pivoted within an angular range which depends in particular on the design of the intermediate webs 72 and the material thickness of the outer portion 24.

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Fig. 8 shows a latched coupling element 30 of the coupling member 14 inserted into a cut-out 70 in an enlarged representation, with each intermediate web 72 having in the embodiment of the rail system shown two holding lugs 74 which each hold one coupling element 30 firmly in an interlocking manner and which are not in the way during the pivoting of the coupling member 14 as a result of apertures 73 provided in the outer portion 24. The coupling member 14 in the embodiment in accordance with Fig. 8 can be pivoted in each case relative to the longitudinal extent

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of the rails 60 through an angle α of approximately 40° to both sides of a vertical indicated by the broken line.

Abutment tongues 76, which are formed on the inner side of the coupling elements 30, abut the rails 60 in the latched state and provide a defined position of the coupling member 14 in the transverse direction with respect to the rails 60.

The coupling member 14 can generally be formed in any manner and in particular in accordance with the embodiments described above with respect to the connection of the coupling member 14 to a carrier. The coupling member 14 can thus generally be releasably connected to carriers of any design or formed as an integral component of the respective carrier.

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Claims

- 1. An apparatus for the storage of disk-shaped data storage media (12), in particular of the CD or DVD type, having a flat housing (10) that has a slot opening (16) via which a reception space for the data storage medium (12) is accessible, and a coupling member (14) that can be inserted into the flat housing (10) via the slot opening (16) to hold the data storage medium (12) and that is releasably connected, in particular latched, to the flat housing (10) in the inserted state, with an outer portion (24) of the coupling member (14) which is arranged outside the flat housing (10) when the coupling member (14) is inserted being formed for the connection to a carrier (42).
- An apparatus in accordance with claim 1, characterized in that the coupling member (14) can be releasably connected to the carrier (42).
- 3. An apparatus in accordance with claim 1 or claim 2, characterized in that the coupling member (14) comprises an insertable portion (22) provided with an approximately part circular-like cut-out (26) which, in the inserted state, fills up the space between the slot opening (16) and the circular reception space for the data storage medium (12) in the flat housing (10) at least in part, preferably substantially in full.
- An apparatus in accordance with at least one of the preceding claims, characterized in that at least one of the narrow sides (28) of the flat housing (10) adjacent to the slot opening (16) is provided

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with projection-like latching means (36) for the coupling member (14).

- An apparatus in accordance with at least one of the preceding
 claims, characterized in that at least one connecting element which connects two halves of the flat housing (10) to one another is formed as latching means (36).
 - 6. An apparatus in accordance with at least one of the preceding claims, characterized in that at least one latching means of the coupling member (14) comprises at least one material web (32) which is elastically deformable, in particular by latching means (36) of the flat housing (10) and which bounds at least one cut-out (33) which is in particular in the shape of an elongate slot.
 - 7. An apparatus in accordance with claim 6, characterized in that the material web (32) comprises at least on engaging section (34) which, in the inserted state, latchingly engages behind latching means (36) formed at a narrow side (23) of the flat housing (10).
 - An apparatus in accordance with at least one of the preceding claims, characterized in that the slot opening (16) of the flat housing (10) is at least substantially completely closed when the coupling member (14) is inserted.
 - 9. An apparatus in accordance with at least one of the preceding claims, characterized in that the coupling member (14) has at least one abutment edge which can be brought into abutment with at

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least one edge region bounding the slot opening (16) or with at least one abutment region formed in the flat housing (10) on insertion into the flat housing (10).

- 5 10. An apparatus in accordance with at least one of the preceding claims, characterized in that the outer portion (24) of the coupling member (14) has at least one coupling element (30) via which the coupling member (14) can be connected, in particular releasably connected, to carriers (42), in particular in the form of flip covers, outer packagings, rod arrangements, hanging registers, storage racks, display units, storage containers, rail systems and/or plug systems.
 - 11. An apparatus in accordance with at least one of the preceding claims, characterized in that the coupling member (14), in particular a coupling element (30) of the coupling member (14), is formed for the releasable connection to storage apparatuses for data storage media of the DVD type, in particular with fixing elements (50) arranged at narrow sides (44) of DVD boxes (42).
- 12. An apparatus in accordance with at least one of the preceding claims, characterized in that the outer portion of the coupling member (14) is connected in one piece to a carrier (42).
- 25 13. An apparatus in accordance with at least one of the preceding claims, characterized in that the coupling member (14) is a component of a folding packaging, in particular one consisting of cardboard or card

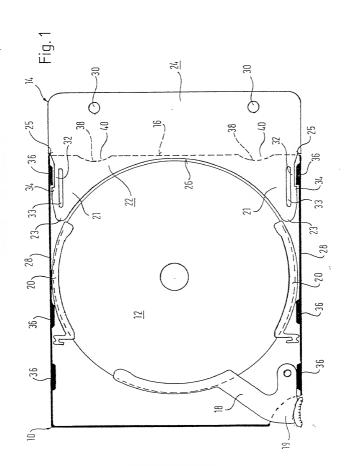
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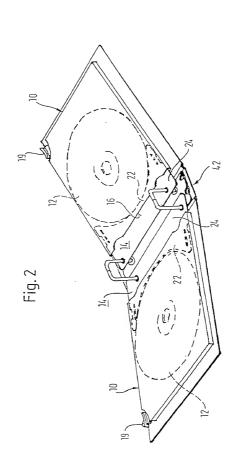
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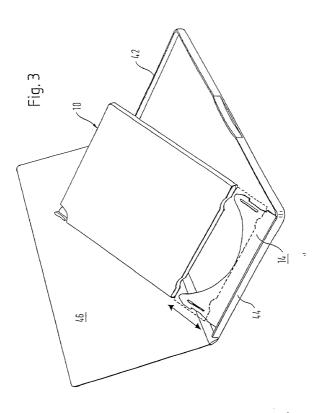
- 14. An apparatus in accordance with at least one of the preceding claims, characterized in that the coupling member (14) in the state connected to a carrier (42) is pivotable with respect to the carrier (42) and is in particular biased relative to the carrier (42) in to an inserting and removing position which allows a simple coupling to the flat housing (10).
- 15. An apparatus in accordance with at least one of the preceding claims, characterized in that the coupling member (14) consists of a reusable material, in particular of plastic, preferably polypropylene, or of cardboard or card.
- 16. A coupling member (14) for holding disk-shaped data storage media (12), in particular of the CD or DVD type for which a reception space is provided in a flat housing (10), which reception space is accessible via a slot opening (16) of the flat housing (10), with the coupling member (14) being insertable into the flat housing (10) via the slot opening (16) and being releasably connected, in particular latched, to the flat housing (10) in the inserted state, and with an outer portion (24) of the coupling member (14) arranged outside the flat housing (10) when the coupling member (14) is inserted being formed for connection to a carrier (42).
- 25 17. A coupling member in accordance with claim 16, characterized by the features relating to a coupling member of at least one of the claims 2 to 15.

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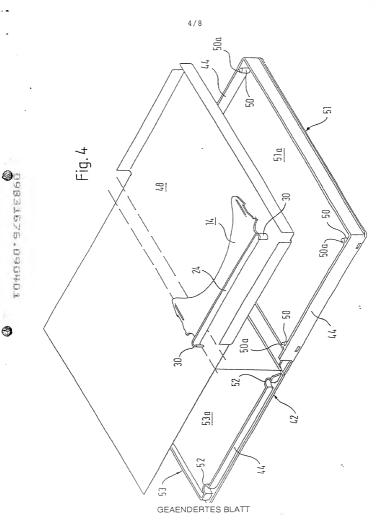
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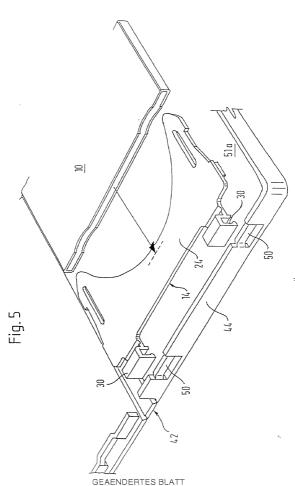


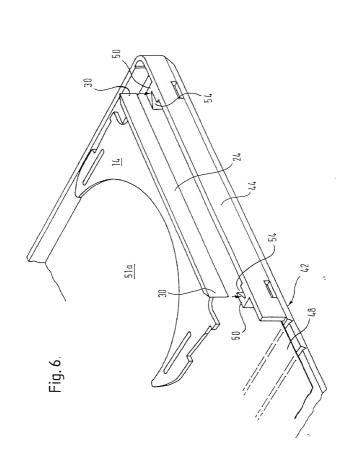


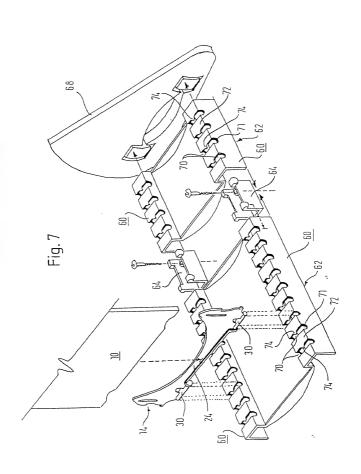
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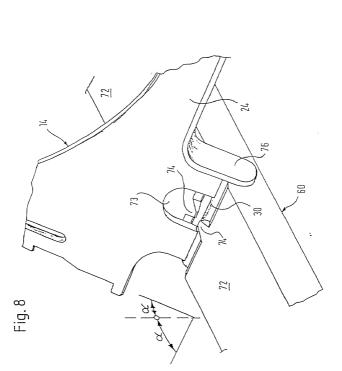


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ATTORNEY DOCKET NO. MFA-13302/04

DECLARATION, POWER OF ATTORNEY AND PETITION

As the below named inventor, I hereby declare:

my residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **DEVICE FOR STORING DISC-SHAPED DATA CARRIERS**.

the specification of which		
[] is attached hereto.		
x was filed on _5/11/01	as Application Serial No. 09/8	31676
and was amended on	(if applicable).	
[X] was described and claimed in F	PCT International Application No.	PCT/EP99/08715
and as amended under PCT Ar	ticle 19 on	(if any).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent & Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

PRIORITY CLAIM UNDER 35 USC § 119(a)-(d)

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign applications(s) for patent or inventor's certificate, or §365(a) of any PCT International Applications designating at least one country other than the U.S. listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT International Applications designating at least one country other than the U.S. having a filing date before that of the application on which priority is claimed:

- [] no such applications have been filed
- [X] application(s) listed below:

PRIOR FOREIGN APPLICATIONS(S) Filed Within Twelve Months (Six Months For Design) Of This Application

				CLAIMED	
198 52 419.6	Germany	13/11/98	YES [X]	NO	
(Number)	(Country)	(Day/month/year filed)	[A]	[]	
(Number)	(Country)	(Day/month/year filed)	[]	[]	
(Number)	(Country)	(Day/month/year filed)	[]	[]	
CLAIM FOR	BENEFIT OF	PROVISIONAL APPLICATION	UNDER 35 U	SC §119(e)	
	claim the bene nal application l	fit under Title 35, United States (sted below:	Code, §119(e) o	f any United	
PROVI	SIONAL APPLI	CATION NO.	FILING I	DATE	

CLAIM FOR BENEFIT OF EARLIER APPLICATIONS UNDER 35 USC §120

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International Application(s) designating the U.S. listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the U.S. Patent & Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

PCT/EP99/08715 (App. Serial No.)	12/11/99 (Filing date)	pending (Status) (patented, pending, abandoned)
(App. Serial No.)	(Filing date)	(Status) (patented, pending, abandoned)

PRIOR FOREIGN APPLICATIONS

(Filed More Than Twelve Months (Six Months for Design) Prior To This Application

(Number)	(Country)	(Day/month/year filed)
(Number)	(Country)	(Day/month/year filed)
(Number)	(Country)	(Day/month/year filed)

POWER OF ATTORNEY

And I hereby appoint Ernest I. Gifford, P.O. Reg. 20.644; Allen M. Krass, P.O. Reg. No. 18,277; Irvin L. Groh, P.O. Reg. No. 17.505; Douglas W. Sprinkle, P.O. Reg. No. 27.394; Thomas E. Anderson, P.O. Reg. No. 31.318; Ronald W. Citkowski, P.O. Reg. No. 31,005; Judith M. Riley, P.O. Reg. No. 31.561; Douglas J. McEvoy, P.O. Reg. No. 34.385; Ellen S. Cogen, P.O. Reg. No. 38,109; Roberta J. Morris, P.O. Reg. No. 33.196; John G. Posa, P.O. Reg. No. 37.424; Douglas L. Wathen, P.O. Reg. No. 41,369; Avery N. Goldstein, P.O. Reg. No. 39.204; Mark D. Schneider, P.O. Reg. No. 43.906 and Beverly M. Bunttien, P.O. Reg. No. 35.072, as my attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith. Send all correspondence to: Douglas W. Sprinkle, 400 N. Old Woodward Avenue, Suite 400, Birmingham, Michigan 48009; Telephone (248) 647-6000.

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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